CLAIMS

Claim 1. (Previously Presented) A light distribution device comprising:

a pair of light transmitting lens panels joined to form an integral unit having a common base portion, each of said lens panels having a geometric base, a front surface extending outwardly from one edge of said base and a rear surface extending outward from the opposite edge of said base and inclining toward the outer edge of said front surface,

a recess formed adjacent the base of at least one of said lens panels, and

a light cartridge mounted within said recess in a manner to transmit light through said lens panels and to allow said panels to be assembled with said bases in abutting relation with an adjacent surface.

Claim 2. (Canceled)

Claim 3. (Previously Presented) The device of Claim 1 wherein :

said base is rectangular.

Claim 4. (Previously Presented) The device of Claim 1 wherein:

said base is triangular.

Claim 5. (Previously Presented) The device of Claim 1 wherein:

said rear surface is mirrored.

Claim 6. (Previously Presented) The device of Claim 1 wherein:

said rear surface is darkened.

Claim 7. (Previously Presented) The device of Claim 1 wherein:

said rear surface is granulated.

Claim 8. (Previously Presented) The device of Claim 1 wherein:

said rear surface is coated.

Claim 9. (Previously Presented) The device of Claim 1 further comprising:

means external to said light distribution device delivering energy to said light cartridge.

Claim 10. (Previously Presented) The device of Claim 9 wherein:

said external means supplies electrical energy to said cartridge.

Claim 11. (Previously Presented) The device of Claim 9 wherein:

said external device supplies non-electric energy to said cartridge.

Claim 12. (Previously Presented) The device of Claim 9 wherein:
said external device supplies optical energy to said cartridge.

Claim 13. (Previously Presented) The device of Claim 1 further comprising:
means for controlling the amount of infrared radiation emitted by said light panels.

Claim 14. (Previously Presented) The device of Claim 1 wherein:
said front surface is flat.

Claim 15. (Previously Presented) The device of Claim 1 wherein:
said front surfaced is convex.

Claim 16. (Previously Presented) The device of Claim 1 wherein:
said front surface is concave.

Claim 17. (Previously Presented) The device of Claim 1 wherein:
said front surface is carved.

Claim 18. (Previously Presented) The device of Claim 1 wherein:
said front surface is textured.

Claim 19. (Previously Presented) The device of Claim 1 wherein: said front surface is etched.

Claim 20. (Cancelled)

Claim 21. (Previously Presented) The device of Claim 1 wherein: said front surface is sculpted.

Claim 22. (Previously Presented) The device of Claim 1 wherein: said front surface has material applied thereto to form letters.

Claim 23. (Previously Presented) The device of Claim 1 wherein: said front surface has material applied thereto to modify the light transmitted from said front surface.

Claim 24. (Previously Presented) The device of Claim 1 wherein: at least one of said lens panels contains a hollow portion.

Claim 25. (Previously Presented) The device of Claim 24 wherein: said hollow portion of said lens panel is filled with fluid.

Claim 26. (Previously Presented) The device of Claim 1 wherein:

said light cartridge contains means for projecting television-like signals onto said front surface of said light panel.

Claim 27. (Previously Presented) The device of Claim 1 comprising:

at least two of said lens panels having their bases attached and extending outwardly from said bases in opposing relation.

Claim 28. (Previously Presented) The device of Claim 1 comprising:

at least two of said lens panels having their bases attached and extending outwardly from said bases with said front surfaces defining an angle to each other.

Claim 29. (Previously Presesnted) The device of Claim 9 wherein:

said light cartridge contains a light source and said delivering means is an electrical cable.

Claim 30. (Previously Presented) The device of Claim 9 wherein:

said delivering means is a light pipe.

Claim 31. (Previously Presented) The device of Claim 9 wherein:

said delivering means is a laser.

Claim 32. (Previously Presented) The device of Claim 1 wherein:

said cartridge includes light modifying means.

Claim 33. (Previously Presented) The device of Claim 32 wherein:
said light modifying means is a photomultiplier.

Claim 34. (Previously Presented) The device of Claim 32 wherein:
said light modifying means is a filter.

Claim 35. (Previously Presented) The device of Claim 32 wherein:
said cartridge contains a filter to pass only desired light frequencies to said lens panel, and
a substance to be purified by said ultraviolet light is passed through said hollow portion of said lens panel.

Claim 36. (Previously Presented) The device of Claim 34 wherein:
said filter serves to control the amount of infrared light passed to said light panels.

Claim 37. (Previously Preseneted) The device of Claim 1 wherein:
said device is mounted on the framing studs of a building to form a floor panel for a room within said building.

Claim 38. (Previously Presented) The device of Claim 1 wherein:

said device is mounted on the framing studs of a building to form a wall panel for a room within said building.

Claim 39. (Previously Presented) The device of Claim 1 wherein: said device is mounted on the framing studs of a building to form a ceiling panel for a room within said building.

Claim 40. (Previously Presented) The device of Claim 1 wherein: said device is embedded in the ground to form a section of a sidewalk.

Claim 41. (Previously Presented) The device of Claim 1 wherein: said device is embedded in the ground to form a section of a road.

Claim 42. (Currently Amended) An article of furniture comprising:

at least one light distribution device having a pair of light transmitting lens panels having a base a front surface extending outwardly from one edge of said base and a rear surface extending outwardly from the opposite edge of said base and inclining toward the outer edge of said front

surface, and one of said lens panels formed with a recess adjacent said base, and

a light cartridge mounted adjacent said base to transmit light through said lens panel.

Claim 43. (Previously Presented) The device of Claim 1 wherein: said lens panel is arcuate.

Claim 44. (Previously Presented) The device of Claim 1 wherein: said device is mounted under water.

Claim 45. (Previously Presented) The device of Claim 1 wherein: said device is mounted in an explosive atmosphere.

Claim 46. (Previously Presented) The device of Claim1 wherein: said device serves to regulate the temperature of the surrounding area.

Claim 47. (Previously Presented) The device of Claim 1 wherein: said device serves as a sign.

Claim 48. (Previously Presented) The device of Claim 32 wherein ;said light modifying means projects images into said lens panel.

Claim 49. (Previously Presented) The device of Claim 48 wherein: said light modifying means is a television projection system

Claim 50. (Cancelled)

Claim 51. (Previously Presented) A light-emitting structure including:

at least two lens panels, each of said lens panels comprising:

a geometric base, a front surface extending outwardly from one edge of said base and a rear surface extending outward from the opposite edge of said base and inclining towaard the outer edge of said front surface; said lens panels being mounted in base to base relation; and

a light cartridge connecting said bases and serving to deliver light through said lens panels.

Claim 52. (Currently Amended) A structure comprising at least one light-emitting panel as a structural component thereof, said panel comprising a base, a front surface extending outwardly from one edge of said base and a rear surface extending outward from the opposite edge of said base and inclining toward the outer edge of said front surface,

a recess formed adjacent the base of at least one of said lens panels,

and

a light cartridge mounted within said recess.

Claim 53. (previously Presented) The structure of Claim 52 wherein:

said structure is a piece of furniture.

Claim 54. (Previously Presented) The structure of Claim 52 wherein:

said structure is a vehicle-bearing surface.

Claim 55. (Currently Amended) The structure of Claim 52 wherein:

said light-emitting panel is hollow, and

means for supplying fluid through said panel.

Claim 56. (Currently Amended) The structure of Claim 52 wherein:

said structure is a sidewalk.

Claim 57. (Previously Presented) The structure of Claim 56 wherein:

said light-emitting panel is hollow, and

means for supplying hot fluid through said panel.

Claim 58. (Previously Presented) The structure of Claim 52 wherein:

said structure has an interior wall and said light-emitting panel forms a structural component of said interior wall.

Claim 59. (Previously Presented) The structure of Claim 52 wherein:

said structure has an exterior wall and said light-emitting panel forms a structural component of said exterior wall.

Claim 60. (Previously Presented) The structure of Claim 52 wherein:

said structure includes an architectural dome and said light-emitting panel forms a structural component of said dome.

Claim 61. (Previously Presented) The structure of Claim 52 wherein:

said structure is hollow and includes means for passing a fluid through said panel, and

means for passing ultraviolet light through said panel to treat said fluid.